



FIGURE 7A

DAF-16 nucleotide

1 ctcaaagcca atcaactcta ctcaactttc' ttcagaacct taacttttg tgtcacttgc
61 cccaaaaacc gttcaagctg ctgccttcac tctcatcccc tcctcttact ccttcttct
121 cgtccgctac tactgtatct tctggacatc tacctgtata cacaccagtg gccagtcata
181 tgccattaca atttcatcaa ttgacacttc ttcaacaaca accggcgcc tcattcactc
241 ccgattcttc ctcatcctca acatcgtcgt ctttggctga aattcccgaa gacgttatga
301 tggagatgct ggtagatcg ggaactgatg catcgtcatc cgcctccacg tccacctcat
361 ctgttcgag attcggagcg gacacgttca tgaatacacc ggatgtatgt atgatgaatg
421 atgatatggc accgattctt cgtgatcggt gcaatacgtg gccaatcggtt agggcgcaac
481 tcgaaccacc actcaactcg agtcccattt ttcatgaaca aattcctgaa gaagatgctg
541 acctatacgg gagcaatgag caatgtggac agctcggcgg agcatcttca aacgggtcga
601 cagcaatgct tcataactcca gatggaaagca attctcatca gacatcggtt cttcgaaaa
661 tggccgaaatc gccagacatc accgtatcg gaaaaaaagac aacgaccaga cggAACGCTT
721 ggggaaatat gtcataatgct gaaacttatca ctacagccat tatggcttagt ccagagaaac
781 ggttaactct tgcacaagtt tacgaatggc tggccatc ttcaggata
841 agggagattc gaacagttca gctggatggc agaactcgat ccgtcacaat ctgtctcttc
901 atttcgtttt catgcaattt cagaatgaag gagccggaaa gagctcggtt tgggttattt
961 atccagatgc aaagccagga aggaatccac ggcgtacacg tgaacgatcc aataactattt
1021 agacgactac aaaggctcaa ctcgaaaaat ctcgcccgg agccaagaag aggataaagg
1081 agagagcattt gatggctcc cttcactcga cacttaatgg aaattcgattt gcccggatcga
1141 ttcaaaacgat ttctcacgat ttgtatgatg atgattcaat gcaaggagca tttgataacg
1201 ttccatcattt tttccgtccc cgaactcaat cgaacctctc gattccttgc tcgtcgatc
1261 gtgttctcc agctattggc agtgcatttctt atgatgtatctt agaattccca tcatgggttgc
1321 gccaatcggtt tccagcaattt ccaagtgata ttgttgcata aactgatcaa atcgatcg
1381 atgcaactac tcatattggc ggagttcaga ttaagcagga gtcgaagccg attaagacgg
1441 aaccaatttgc tccaccacca tcataccacg agttgaacag tggccgttgc tcgtgtgc
1501 agaattccact tttcgaaat ccaatttgc caagcactaa cttcaaggcc atgccactac
1561 cgggtgccta tggaaactat caaaatggc gaataactcc aatcaattttt ctatcaacat
1621 ccaactcattt tccactgcctt ggaattcaat cgtgttgcattt tttgatctgc cagcatactg
1681 tgcgttcttc atcggttctt ccaatttgcattt tggaaaatctt gacacttccc gatcagccac
1741 tgcgttcttc atcggttctt ccaatttgcattt tggaaaatctt gacacttccc gatcagccac
1801 agcataatttgc ttttgcattt taaatttgcattt ttttgcattt ttttgcattt ttttgcattt
1861 gagagatagc aaagcagcga ggagttcaga atcttccgtt ttcatctttt ccaatcccta
1921 cctacacaca ctcaacgcattt atcacagccca gaccatcaat atttttgcattt ttttgcattt
1981 cgttaattttt ttttgcattt ttttgcattt ttttgcattt ttttgcattt ttttgcattt
2041 ctttctctcg tctaaatttgc acacatttgcattt cccaggatgc tgcgttgcata ataatataaa
2101 atacctcttc tctctttttt ccccttgcattt ttttgcattt ttttgcattt ttttgcattt
2161 cttttttttt ttttgcattt ttttgcattt ttttgcattt ttttgcattt ttttgcattt
2221 aatgcgttgcattt ttttgcattt ttttgcattt ttttgcattt ttttgcattt ttttgcattt
2281 acacattccc caatctgttgcattt ttttgcattt ttttgcattt ttttgcattt ttttgcattt
2341 ctcttgcattt ttttgcattt ttttgcattt ttttgcattt ttttgcattt ttttgcattt
2401 ctcttgcattt ttttgcattt ttttgcattt ttttgcattt ttttgcattt ttttgcattt
2461 cacatagttttttt ttttgcattt ttttgcattt ttttgcattt ttttgcattt ttttgcattt
2521 tacaatccat ttttgcattt ttttgcattt ttttgcattt ttttgcattt ttttgcattt
2581 atcggttcttc ttttgcattt ttttgcattt ttttgcattt ttttgcattt ttttgcattt
2641 ttttgcattt ttttgcattt ttttgcattt ttttgcattt ttttgcattt ttttgcattt
2701 ctttgcattt ttttgcattt ttttgcattt ttttgcattt ttttgcattt ttttgcattt
2761 gtttgcattt ttttgcattt ttttgcattt ttttgcattt ttttgcattt ttttgcattt
2821 ttttgcattt ttttgcattt ttttgcattt ttttgcattt ttttgcattt ttttgcattt
2881 ttttgcattt ttttgcattt ttttgcattt ttttgcattt ttttgcattt ttttgcattt
2941 atatatttgc gactgtatgc ttttgcattt ttttgcattt ttttgcattt ttttgcattt

FIGURE 7B

Daf-16 protein sequence

MNDSIDDDFP PEPGRGRCYT W PMQQYIYQES SATIPHHLN QHNNPYHPMH PHHQLPHMQQ
LPQPLLNLNM TTLTSSGSSV
ASSIGGAQC SPCASGSSTA ATNSSQQQQT VGQMLAASVP CSSSGMTLGM SLNLSQGGGP
MPAKKKRCK KPTDQLAQKK
PNPWGEESYS DIIAKALESA PDGRLKLNEI YQWFSDNIPY FGERSSPEEA AGWKNSIRHN
LSLHSRFRM RI QNEGAGKSSW
WVINPDAKPG RNPRRTRERS NTIETTTKAQ LEKSRRGAKK RIKERALMGS LHSTLNGNSI
AGSIQTIHD LYDDDSMQGA
FDNVPSSFRP RTQSNLNSIPG SSSRVSPAIG SDIYDDLEFP SWVGESVPAI PSDIVDRTDQ
MRIDATTHIG GVQIKQESKP
IKTEPIAPPP SYHELNSVRG SCAQNPLLRLN PIVPSTNFKP MPLPGAYGN Y QNGGITPINW
LSTSNSSPLP GIQSCGIVAA
QHTVASSSSAL PIDLENLTLP DQPLMDTMDV DALIRHELSQ AGGQHIFD

Age-1 nucleotide sequence

1 atgcatgtta acatttaca tccacaactg caaacatgg tcgagcagt gcaa atgcga
61 gaacgccc at cgctggagac cgagaatggc aaaggatcgc tgctcctgaa aatgaaggt
121 gtcgcagata tcatactat gtgtccatc ggagaagttt ttagttagt atttccgtgg
181 tttcttgca atgtgcgaac atcgctagaa atcaagctat cagatttcaa acatcaactt
241 ttcgaattga ttgctccgat gaagtgggaa acatattccg taaagccaca ggattatgtg
301 ttcagacagt tgaataattt cggcgaaattt gaagttat ttaacgcacca tcaacccctg
361 tcgaaattag agctccacgg cactttccca atgcttttc tctaccaacc tgatggaata
421 aacaggata aagaatataat gagtatata atgcattgtc taggataactc actggataaaa
481 ctggaagaga gcctcgatga ggaactccgt caatttcgtg cttctctctg ggctcgatcg
541 aagaaaacgt gcttgacacg tggacttgag ggtaccagtc actacgcgtt ccccgaaagaa
601 cagtaactgt gtgttggta atcgtgccc aaagatttgg aatcaaaaatg caaggctgccc
661 aagctgagtt atcagatgtt ttggagaaaa cgtaaagcgg aaatcaatgg agtttgcgag
721 aaaatgatga agattcaat tgaattcaat ccgaacgaaa ctccgaaatc tctgcttcac
781 acgtttctct acgaaatgcg aaaattggat gtatacgata ccgatgatcc tgcagatgaa
841 ggtatggtttcaatttggc tggacgtacc acgtttgtt caaatccaga tgcacaaactt
901 acgtcttatg atggatgtccg ttccgaaactg gaaagctatc gatgcccgg attcggttgg
961 cggccgacaat cactagtcc taaagactat tgtcgccc aaaccactcta cgaaccacat
1021 tatgtgagag cacacgaacg aaaacttgct ctagacgtgc tcagcgtgtc tatagatagc
1081 acaccaaaaac agagcaagaa cagtgcacat gttatgactg attttcgtcc gacagcttca
1141 ctcaaaacaag tttcaacttgc ggaccttgc gcaatctt aatgcggcc tgcgtatatt
1201 tctggatttcg atttccggc cgacgtgtat atgtacgttc gaatcgaatt cagtgtatatt
1261 gtggggacac tgacgtggc atcaaaaatc acaacaaaag tgaatgctca atttgcaaaa
1321 tggataaagg aatgtacac ttttgcata tacatgaagg atatgcacc atctgcagta
1381 ctgcgcatttgc gtgtttgttca cggaaaaatg aatattaaaaaa gtgaagaatt cgaagttgg
1441 tgggtaaata tgcctcaac cgattggaga gatgaactac gacaaggaca attttatttc
1501 catctgtggg ctcctgaacc gactgccaat cgttagtagga tggagaaaaa tgagcaagg
1561 ataggccacca acgcgcgtt tacaatttgc atctcaatgtt atggatgttag agttcgaatg
1621 cccgatcaag gacaatacac atatctgtc aagcaccgaa gtacttggac gggaaacttttgc
1681 aatattatgg gtatgtacta tgatgtgtt atcagagatc caggatataa gaagcttcag
1741 atgcgttgc agaagcatga atctggattt gatgttgcgg aagatgaaca acgtcatgtc
1801 tggatgtggg ggagatacat tcaaaagcag gagcctgatt tgctcattgt gctctccgaa
1861 ctgcgcatttgc tgcgttgcgttca acggcgtt aatgcacatc gatgttgcgtt gcttggaaaa
1921 tggaaaccgc cgatgtggc agccgcgtt acgttgcgtt gaaaacgttgc cacggatcgt
1981 gtgattcggaa agtttgcgtt gggaaatgtt aatgcacatc tggatgttgcgtt cacattccat
2041 cttttcataat tgcctctcat acaggcgtt aatgcacatc gatgttgcgtt acgttgcgtt
2101 ggaatgtgc tcttgcgtt aatgcacatc gatgttgcgtt acgttgcgtt acgttgcgtt
2161 ctgcgcatttgc cagatgttgc tgcgttgcgtt gatgttgcgtt tggatgttgcgtt agaataatcgc

FIGURE 7C

2221 cgtatctcac ttctgatgga agcttacac cgtggaaatg aagagcacat caagatcatc
2281 acccgacaag ttgacatggc tgatgagctc acacgaatca gcactcttgc ccaaaggaaatg
2341 ccaaaagatg ttgctacat gaaaactgcgt gacgagctc gatcgattag tcataaaatg
2401 gaaaatatgg attctccact ggatcctgtc tacaactgg gtgaaatgat aatcgacaaa
2461 gccatcgccc taggaagtgc aaaacgtccg ttaatgctc actggaaagaa caaaaatcca
2521 aagagtgacc tgcacccccc gttctgtcga atgatcttca agaatggaga cgatcttcgc
2581 caggacatgc ttgttcttca agttctcgaa gttatggata acatctggaa ggctgaaac
2641 attgattgct gttgaaccc gtacgcatt cttccatgg gagaaatgat tggaaattatt
2701 gaagttgtgc ctaattgtaa aacaatattc gagattcaag ttgaaacagg attcatgaat
2761 acagcagttc ggagtattga tccttcgtt atgatataatg ggattcggaa acaatgcgg
2821 attgaagatg aaaagaagaa aagaaaaaag gactctacga aaaatccat cggaaaagaag
2881 attgataata ctcaagccat gaagaaatat tttgaaatgt tcgatcgatt ctataactcg
2941 tgtgttggat attcagttgc cacgtacata atggaaatca aggatcgta cagtgataat
3001 ctgatgctca ctgaagatgg aaaatatttc cacattgatt tcggcacat tttggacac
3061 ggaaagacca aacttggat ccagcgagat cgtcaaccgt ttattctaac cgaacacttt
3121 atgacagtga ttgcattcggg taaatctgt gatggaaatt cgcattgatc aaaaaattc
3181 aaaacgttat gcgtcgaagc ctacgaagta atgtgaaata atcgagattt gttcgttcc
3241 ttgttccacct tgatgctcg aatggagtt cctgagctgt cgacgaaagc ggatttggat
3301 catttgaaga aaacccttt ctgcaatgg aaaaagcaag aagaagcgag aaagttttc
3361 gctggaaatct acgaagaagc cttcaatgg tcatggtcta ccaaaacgaa ttggctttc
3421 cacgcagtc aacactactg a

Age-1 protein sequence

MHVNILHPQL QTVMVEQWQMR ERPSLETENG KGSLLLENEG VADIITMCPF GEVISVVFPW
FLANVRTSLE IKLSDFKHQL
FELIAPMKWG TYSVKPQDYV FRQLNNFGEI EVIFNDDQPL SKLELHGTFP MLFLYQPDGI
NRDKELMSDI SHCLGYSLDK
LEESLDEELR QFRASLWART KKTCLTRGLE GTSHYAFPEE QYLCVGESCP KDLESKVKA
KLSYQMFWRK RKAЕINGVCE
KMMKIQIEFN PNETPKSLLH TFLYEMRKLD VYDTDDPADE GWFLQLAGRT TFVTNPDVKL
TSYDGVRSEL ESYRCPGFVV
RRQSLVLKDY CRPKPLYEPH YVRAHERKLA LDVLSVSIDS TPKQSKNSDM VMTDFRPTAS
LKQVSLWDLD ANLMIRPVNI
SGFDFPADVD MYVRIEFSVY VGTTLASKS TTKVNAQFAK WNKEMYTFDL YMKDMPPSAV
LSIRVLYGKV KLKSEEFEVG
WVNMSLTDWR DELRQGQFLF HLWAPEPTAN RSRIGENGAR IGTNAAVTIE ISSYGGVRM
PSQGQYTYLV KHRSTWTETL
NIMGDDYESC IRDPGYKKLQ MLVKKHESGI VLEEDEQRHV WMWRRYIQQ EPDLLIVLSE
LAFVTDREN FSELYVMLEK
WKPPSVAAL TLLGKRCTDR VIRKFAVEKL NEQLSPVTFH LFILPLIQAL KYEPRAQSEV
GMMLLTRALC DYRIGHRLFW
LLRAEIARLR DCDLKSEEEYR RISLLMEAYL RGNEEHIKII TRQVDMVDEL TRISTLVKG
PKDVATMKLR DELRSISHKM
ENMDSPLDV YKLGEMIIDK AIVLGSAKRP LMLHWKNKNP KSDLHLPFCA MIFKNGDDL
QDMLVLQVLE VMDNIWKAAN
IDCCLNPYAV LPMGEMIGII EVVPNCKTIF EIQVGTGFMN TAVRSIDPSF MNKWIRKQCG
IEDEKKKSKK DSTKNPIEKK
IDNTQAMKKY FESVDRFLYS CVGYSVATYI MGIKDRHSDN LMLTEDGKYF HIDFGHILGH
GKTKLGIQRD RQPFILTEHF
MTVIRSGKSV DGNSHELQKF KTLCVEAYEV MWNNRDLFVS LFTLMLGMEL PELSTKADLD
HLKKTLCNG ESKEEARKFF
AGIYEEAFNG SWSTKTNWLF HAVKHY